

Application No.: 09/518,117

Docket No.: JCLA5710

**REMARKS****Present Status of the Application**

Claims 1-5 are pending in the present application. The Office Action rejected all five claims under 35 U.S.C. 102(b) as being anticipated by Kosiyouji et al., USPN 5,150,227. Furthermore, the drawings have been objected to under 37 CFR 1.83(a) for failing to show every feature of the invention specified in the claims. No claims have been amended and new claims have been added in the present invention.

Claims 1-5 remain pending in the present application, and reconsideration of the rejection to said claims is respectfully requested.

**Summary of Applicants' Invention**

The Applicants' invention is directed to a method of increasing the scanning resolution of a scanner through controlling its driving system. By suitably adjusting the timing relationship between motor pulses and exposure pulses, a low-resolution driving system can produce a high-resolution image with no additional production cost incurred.

**Response to the Objection to the Drawings**

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The Office Action objected to the drawings of the present invention as failing to show every feature of the invention specified in the claims.

New added Fig. 3 is a schematic diagram of the present invention added to the application supporting the features of claim 1. Applicants assert no new matter has been introduced with the schematic diagram and therefore reconsideration of the objection to the drawings by the Examiner is respectfully requested.

**Response to Rejection Under USC 102(b)**

It is asserted in the Office Action that claims 1-5 are rejected under 35 U.S.C. 103(a) as being anticipated by Koshijouji et al., USPN 5,150,227. Applicants respectfully traverse the rejection below.

Koshijouji et al. discloses a method of increasing scanning resolution of a scanner through controlling its driving system. However, as stated in the specification of the present invention, the prior art applies several method of increasing resolution. Koshijouji et al. is an example of method (a) on page 1. Koshijouji et al. reduces the rotation speed of a driving device to a desirable value by means of a transmission. Furthermore, the conversion ratio of which is

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determined on the basis of the least common multiple (Koshiyouji et al., abstract). This clearly shows that the disclosure of Koshiyouji falls within the methods shown on tables 1 and 2 of the specification which uses a dividing method to reduce the motor pulse cycle. By such a method, which is further explained in Koshiyouji (cols. 5-7), the motor pulse cycle is divided over and over, but the number of exposures do not actually increase. The present invention clearly deviates from the application of Koshiyouji as the number of Exposures is increased without motor pulse cycle increments (table 3).

Applicants assert that the present invention clearly shows a different method from the prior art in reference and, as stated in detail in the specification, increases the resolution of scanners without the drawbacks of the prior arts (page 6 of specification). Therefore, reconsideration of the rejection is respectfully requested.

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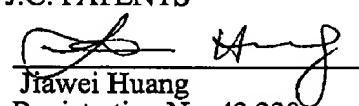
**CONCLUSION**

For at least the forgoing reasons, it is believed that pending claims 1-5, newly added FIG 3, and the amended specification are in proper condition for allowance. If the Examiner believes that a telephone conference would expedite the examination of the above-identified patent application, the Examiner is invited to call the undersigned.

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**VERSION WITH MARKINGS TO SHOW CHANGES MADE****In the Specification:**

Lines 6-9 of the Specification has been amended as follows:

Fig. 1 is a timing diagram showing the shift gate clock pulse and the motor pulse provided by the driving system of a conventional scanner; [and]

Fig. 2 is a timing diagram showing the shift gate clock pulse and the motor pulse provided by the driving system of a scanner according to this invention[.]; and

Fig. 3 is a schematic diagram of the driving system control according to the present invention.

The following paragraph has been added to the specification between the first and second paragraphs on page 5:

Fig. 3 is a schematic diagram of a scanner showing the driving system control 10 sending the motor pulse (MTP) 50 to the motor 30 and shift gate clock pulse (SH) 40 to the CCD 20 according to this invention.

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